

**OPTICALLY POWERED AND OPTICALLY DATA-TRANSMITTING WIRELESS
INTRAOCULAR PRESSURE SENSOR DEVICE**

ABSTRACT OF THE DISCLOSURE

An optically powered and optically data-transmitting wireless intraocular pressure sensor device for detecting excessive intraocular pressure above a predetermined threshold pressure, comprising a pressure switch that is sized and configured to be placed in an eye, wherein said pressure switch is activated when the intraocular pressure is higher than the predetermined threshold pressure. In one embodiment, the pressure sensor device is a micro electromechanical system.